



# UNITED STATES PATENT AND TRADEMARK OFFICE

9/21  
✓

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,253	07/03/2003	Pieter G. Einthoven	02-0889	4882
64722	7590	12/27/2007		
OSTRAGER CHONG FLAHERTY & BROITMAN, P.C.			EXAMINER	
570 LEXINGTON AVENUE			TO, TUAN C	
FLOOR 17				
NEW YORK, NY 10022-6894			ART UNIT	PAPER NUMBER
			3663	
			NOTIFICATION DATE	DELIVERY MODE
			12/27/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

JBROITMAN@OCFBLAW.COM  
lmurrell@ocfblaw.com  
patentadmin@boeing.com

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/613,253	EINHOVEN ET AL.
	Examiner Tuan C. To	Art Unit 3663

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 10 December 2007.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-15, 17, 19-21 and 46-54 is/are pending in the application.
- 4a) Of the above claim(s) 7, 10, 13, 14, 17, 19 and 20 is/are withdrawn from consideration.
- 5) Claim(s) 1-6, 8, 9, 11, 12, 15 and 70 is/are allowed.
- 6) Claim(s) 21, 46, 48 and 49 is/are rejected.
- 7) Claim(s) 47 and 50-54 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 03 July 2003 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date: _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date: _____	6) <input type="checkbox"/> Other: _____

## **DETAILED ACTION**

The indicated allowability of claims 21, 46, 48, and 49 is withdrawn in view of the newly discovered reference(s) to Augustin et al. (US 20050151672A1). Rejections based on the newly cited reference(s) follow.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 21 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The examiner has found no support for the limitation "determining the maximum limits of each of said plurality of operating parameters", "providing said determined maximum and minimum limits to the vehicle controller", "preventing said determined maximum and minimum limits from being exceeded in the aeronautical vehicle by the vehicle controller".

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 48 is rejected under 35 U.S.C. 112 (second paragraph) as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 48 recites the limitation "the amount of vertical velocity change and the amount of torque" in claim 46. There is insufficient antecedent basis for this limitation in the claim.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 46, 48, and 49 are rejected under 35 U.S.C. 102 (e) as being anticipated by Augustin et al. (US 20050151672A1).

Regarding claims 46, and 48, Augustin et al. discloses a system and method for tactile cueing of aircraft controls during a constant vertical state comprising: generating an airspeed signal (paragraph 0012); generating an attitude signal (paragraph 0031); determining at least one vertical inceptor position to maintain a vertical state (figure 4, abstract; the vertical inceptor position is determined by the collective stick 21 in order to maintain a vertical state); and generating a cueing signal to maintain a constant vertical state in response to variety of parameters: said airspeed signal, attitude signal, a minimum inceptor position determined from collective stick (21), and a maximum inceptor position determined from said collective stick (21).

As to claim 49, Augustin et al. further discloses generating a control inceptor position signal; and generating said cueing signal to maintain the constant vertical state in response to said control inceptor position signal (figure 4; paragraph 0035, the collective cueing processor 51 generates cueing signals (figure 4; page 3, paragraph 0035, lines 21-25) to maintain constant vertical state in response to the control inceptor position signal from collective stick 21.

***Response to Amendment***

The applicant's amendment after final has been fully considered and entered. The final rejection as set forth on 10/11/2007 has been withdrawn. The allowability of claims 21, 46, 48, and 49 has been reversed.

***Allowable Subject Matter***

Claims 1-6, 8, 9, 11, 12, 15, and 70 are set in a condition of allowance. The non-elected claims would be rejoined at the time the application is allowable.

Claims 47, and 50-54 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusions***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan C To whose telephone number is (571) 272-6985. The examiner can normally be reached on from 8:00AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on 571-272-6878.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number:  
10/613,253  
Art Unit: 3663

Page 6

Patent Examiner,

A handwritten signature in black ink, appearing to read "Tuan C To", is written over a horizontal line.

Tuan C To

December 20, 2007